

ENTERED

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/217,780DATE: 04/08/94  
TIME: 10:33:53

INPUT SET: S1916.raw

This Raw Listing contains only the General  
Information Section and up to the first 5 pages.

1 SEQUENCE LISTING  
2

## 3 (1) General Information:

4  
5 (i) APPLICANT: Celeste, Anthony J.  
6 Wozney, John  
7 Rosen, Vicki A.  
8 Wolfman, Neil  
9 Thomsen, Gerald H.  
10 Melton, Douglas A.

11  
12 (ii) TITLE OF INVENTION: TENDON-INDUCING COMPOSITIONS

13  
14 (iii) NUMBER OF SEQUENCES: 24

15  
16 (iv) CORRESPONDENCE ADDRESS:

17 (A) ADDRESSEE: GENETICS INSTITUTE, INC.  
18 (B) STREET: 87 CambridgePark Drive  
19 (C) CITY: Cambridge  
20 (D) STATE: Massachusetts  
21 (E) COUNTRY: USA  
22 (F) ZIP: 02140

23  
24 (v) COMPUTER READABLE FORM:

25 (A) MEDIUM TYPE: Floppy disk  
26 (B) COMPUTER: IBM PC compatible  
27 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
28 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

29  
30 (vi) CURRENT APPLICATION DATA:

31 (A) APPLICATION NUMBER: US  
32 (B) FILING DATE:  
33 (C) CLASSIFICATION:

34  
35 (viii) ATTORNEY/AGENT INFORMATION:

36 (A) NAME: Lazar, Steven R.  
37 (B) REGISTRATION NUMBER: 32,618  
38 (C) REFERENCE/DOCKET NUMBER: 5202-CIP

39  
40 (ix) TELECOMMUNICATION INFORMATION:

41 (A) TELEPHONE: 617 876-1170  
42 (B) TELEFAX: 617 876-5851

43  
44 (2) INFORMATION FOR SEQ ID NO:1:

45  
46

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/217,780**

DATE: 04/08/94  
TIME: 10:33:58

### **INPUT SET: S1916.raw**

47 (i) SEQUENCE CHARACTERISTICS:  
 48 (A) LENGTH: 926 base pairs  
 49 (B) TYPE: nucleic acid  
 50 (C) STRANDEDNESS: single  
 51 (D) TOPOLOGY: linear  
 52  
 53 (ii) MOLECULE TYPE: DNA (genomic)  
 54  
 55 (vi) ORIGINAL SOURCE:  
 56 (A) ORGANISM: Homo sapiens  
 57  
 58 (vii) IMMEDIATE SOURCE:  
 59 (B) CLONE: v1-1  
 60  
 61 (ix) FEATURE:  
 62 (A) NAME/KEY: mat\_peptide  
 63 (B) LOCATION: 571..882  
 64  
 65 (ix) FEATURE:  
 66 (A) NAME/KEY: CDS  
 67 (B) LOCATION: 1..882  
 68  
 69  
 70 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
 71  
 72 GCG CGT AAT ACG ACT CAC TAT AGG GCG AAT TGG GTA CGG GGC CCA GGC 48  
 73 Ala Arg Asn Thr Thr His Tyr Arg Ala Asn Trp Val Arg Gly Pro Gly  
 74 -190 -185 -180 -175  
 75  
 76 AGC TGG ACT TCT CCG CCG TTG CTG CTG CTG TCC ACG TGC CCG GGC GCC 96  
 77 Ser Trp Thr Ser Pro Pro Leu Leu Leu Ser Thr Cys Pro Gly Ala  
 78 -170 -165 -160  
 79  
 80 GCC CGA GCG CCA CGC CTG CTG TAC TCG CGG GCA GCT GAG CCC CTA GTC 144  
 81 Ala Arg Ala Pro Arg Leu Leu Tyr Ser Arg Ala Ala Glu Pro Leu Val  
 82 -155 -150 -145  
 83  
 84 GGT CAG CGC TGG GAG GCG TTC GAC GTG GCG GAC GCC ATG AGG CGC CAC 192  
 85 Gly Gln Arg Trp Glu Ala Phe Asp Val Ala Asp Ala Met Arg Arg His  
 86 -140 -135 - -130  
 87  
 88 CGT CGT GAA CCG CGC CCC CCC CGC GCG TTC TGC CTC TTG CTG CGC GCA 240  
 89 Arg Arg Glu Pro Arg Pro Arg Ala Phe Cys Leu Leu Leu Arg Ala  
 90 -125 -120 -115  
 91  
 92 GTG GCA GGC CCG GTG CCG AGC CCG TTG GCA CTG CGG CGA CTG GGC TTC 288  
 93 Val Ala Gly Pro Val Pro Ser Pro Leu Ala Leu Arg Arg Leu Gly Phe  
 94 -110 -105 -100 -95  
 95  
 96 GGC TGG CCG GGC GGA GGG GGC TCT GCG GCA GAG GAG CGC GCG GTG CTA 336  
 97 Gly Trp Pro Gly Gly Gly Ser Ala Ala Glu Glu Arg Ala Val Leu  
 98 -90 -85 -80

RAW SEQUENCE LISTING  
PATENT APPLICATION *US/08/217,780*DATE: 04/08/94  
TIME: 10:34:04INPUT SET: *S1916.raw*

100	GTC GTC TCC TCC CGC ACG CAG AGG AAA GAG AGC TTA TTC CGG GAG ATC	384
101	Val Val Ser Ser Arg Thr Gln Arg Lys Glu Ser Leu Phe Arg Glu Ile	
102	-75 -70 -65	
103		
104	CGC GCC CAG GCC CGC GCG CTC GGG GCC GCT CTG GCC TCA GAG CCG CTG	432
105	Arg Ala Gln Ala Arg Ala Leu Gly Ala Ala Leu Ala Ser Glu Pro Leu	
106	-60 -55 -50	
107		
108	CCC GAC CCA GGA ACC GGC ACC GCG TCG CCA AGG GCA GTC ATT GGC GGC	480
109	Pro Asp Pro Gly Thr Gly Thr Ala Ser Pro Arg Ala Val Ile Gly Gly	
110	-45 -40 -35	
111		
112	CGC AGA CGG AGG AGG ACG GCG TTG GCC GGG ACG CGG ACA GCG CAG GGC	528
113	Arg Arg Arg Arg Arg Thr Ala Leu Ala Gly Thr Arg Thr Ala Gln Gly	
114	-30 -25 -20 -15	
115		
116	AGC GGC GGG GGC GCG GGC CGG GGC CAC GGG CGC AGG GGC CGG AGC CGC	576
117	Ser Gly Gly Ala Gly Arg Gly His Gly Arg Arg Gly Arg Ser Arg	
118	-10 -5 1	
119		
120	TGC AGC CGC AAG CCG TTG CAC GTG GAC TTC AAG GAG CTC GGC TGG GAC	624
121	Cys Ser Arg Lys Pro Leu His Val Asp Phe Lys Glu Leu Gly Trp Asp	
122	5 10 15	
123		
124	GAC TGG ATC ATC GCG CCG CTG GAC TAC GAG GCG TAC CAC TGC GAG GGC	672
125	Asp Trp Ile Ile Ala Pro Leu Asp Tyr Glu Ala Tyr His Cys Glu Gly	
126	20 25 30	
127		
128	CTT TGC GAC TTC CCT TTG CGT TCG CAC CTC GAG CCC ACC AAC CAT GCC	720
129	Leu Cys Asp Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His Ala	
130	35 40 45 50	
131		
132	ATC ATT CAG ACG CTG CTC AAC TCC ATG GCA CCA GAC GCG GCG CCG GCC	768
133	Ile Ile Gln Thr Leu Leu Asn Ser Met Ala 'Pro Asp Ala Ala Pro Ala	
134	55 60 65	
135		
136	TCC TGC TGT GTG CCA GCG CGC CTC AGC CCC ATC AGC ATC CTC TAC ATC	816
137	Ser Cys Cys Val Pro Ala Arg Leu Ser Pro Ile Ser Ile Leu Tyr Ile	
138	70 75 80	
139		
140	GAC GCC AAC AAC GTT GTC TAC AAG CAA TAC GAG GAC ATG GTG GTG	864
141	Asp Ala Ala Asn Asn Val Val Tyr Lys Gln Tyr Glu Asp Met Val Val	
142	85 90 95	
143		
144	GAG GCC TGC GGC TGC AGG TAGCGCGCGG GCCGGGGAGG GGGCAGCCAC	912
145	Glu Ala Cys Gly Cys Arg	
146	100	
147		
148	GC GGCCGAGG ATCC	926
149		
150		
151	(2) INFORMATION FOR SEQ ID NO:2:	
152		

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/217,780DATE: 04/08/94  
TIME: 10:34:10

INPUT SET: S1916.raw

153 (i) SEQUENCE CHARACTERISTICS:  
154 (A) LENGTH: 294 amino acids  
155 (B) TYPE: amino acid  
156 (D) TOPOLOGY: linear  
157  
158 (ii) MOLECULE TYPE: protein  
159  
160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
161  
162 Ala Arg Asn Thr Thr His Tyr Arg Ala Asn Trp Val Arg Gly Pro Gly  
163 -190 -185 -180 -175  
164 Ser Trp Thr Ser Pro Pro Leu Leu Leu Ser Thr Cys Pro Gly Ala  
165 -170 -165 -160  
166  
167 Ala Arg Ala Pro Arg Leu Leu Tyr Ser Arg Ala Ala Glu Pro Leu Val  
168 -155 -150 -145  
169  
170 Gly Gln Arg Trp Glu Ala Phe Asp Val Ala Asp Ala Met Arg Arg His  
171 -140 -135 -130  
172  
173 Arg Arg Glu Pro Arg Pro Pro Arg Ala Phe Cys Leu Leu Leu Arg Ala  
174 -125 -120 -115  
175  
176 Val Ala Gly Pro Val Pro Ser Pro Leu Ala Leu Arg Arg Leu Gly Phe  
177 -110 -105 -100 -95  
178  
179 Gly Trp Pro Gly Gly Ser Ala Ala Glu Glu Arg Ala Val Leu  
180 -90 -85 -80  
181  
182 Val Val Ser Ser Arg Thr Gln Arg Lys Glu Ser Leu Phe Arg Glu Ile  
183 -75 -70 -65  
184  
185 Arg Ala Gln Ala Arg Ala Leu Gly Ala Ala Leu Ala Ser Glu Pro Leu  
186 -60 -55 -50  
187  
188 Pro Asp Pro Gly Thr Gly Thr Ala Ser Pro Arg Ala Val Ile Gly Gly  
189 -45 -40 -35  
190  
191 Arg Arg Arg Arg Arg Thr Ala Leu Ala Gly Thr Arg Thr Ala Gln Gly  
192 -30 -25 -20 -15  
193  
194 Ser Gly Gly Ala Gly Arg Gly His Gly Arg Arg Gly Arg Ser Arg  
195 -10 -5 1  
196  
197 Cys Ser Arg Lys Pro Leu His Val Asp Phe Lys Glu Leu Gly Trp Asp  
198 5 10 15  
199  
200 Asp Trp Ile Ile Ala Pro Leu Asp Tyr Glu Ala Tyr His Cys Glu Gly  
201 20 25 30  
202  
203 Leu Cys Asp Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His Ala  
204 35 40 45 50  
205

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/217,780DATE: 04/08/94  
TIME: 10:34:16

INPUT SET: S1916.raw

206  
 207 Ile Ile Gln Thr Leu Leu Asn Ser Met Ala Pro Asp Ala Ala Pro Ala  
 208 55 60 65  
 209  
 210 Ser Cys Cys Val Pro Ala Arg Leu Ser Pro Ile Ser Ile Leu Tyr Ile  
 211 70 75 , 80  
 212  
 213 Asp Ala Ala Asn Asn Val Val Tyr Lys Gln Tyr Glu Asp Met Val Val  
 214 85 90 95  
 215  
 216 Glu Ala Cys Gly Cys Arg  
 217 100  
 218  
 219 (2) INFORMATION FOR SEQ ID NO:3:  
 220  
 221 (i) SEQUENCE CHARACTERISTICS:  
 222 (A) LENGTH: 1207 base pairs  
 223 (B) TYPE: nucleic acid  
 224 (C) STRANDEDNESS: single  
 225 (D) TOPOLOGY: linear  
 226  
 227 (ii) MOLECULE TYPE: DNA (genomic)  
 228  
 229 (vi) ORIGINAL SOURCE:  
 230 (A) ORGANISM: Homo sapiens  
 231  
 232 (vii) IMMEDIATE SOURCE:  
 233 (B) CLONE: MP52  
 234  
 235 (ix) FEATURE:  
 236 (A) NAME/KEY: CDS  
 237 (B) LOCATION: 845..1204  
 238  
 239  
 240 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
 241  
 242 ACCGGGCGGC CCTGAACCCA AGCCAGGACA CCCTCCCCAA ACAAGGCAGG CTACAGCCCG 60  
 243  
 244 GACTGTGACC CCAAAAGGAC AGCTTCCCGG AGGCAAGGCA CCCCCAAAG CAGGATCTGT 120  
 245  
 246 CCCCAGCTCC TTCCTGCTGA AGAAGGCCAG GGAGCCGGG CCCCCACGAG AGCCAAGGA 180  
 247  
 248 GCCGTTTCGC CCACCCCCCA TCACACCCCA CGAGTACATG CTCTCGCTGT ACAGGACGCT 240  
 249  
 250 GTCCGATGCT GACAGAAAGG GAGGCAACAG CAGCGTGAAG TTGGAGGCTG GCCTGGCAA 300  
 251  
 252 CACCATCACC AGCTTTATTG ACAAAAGGGCA AGATGACCGA GGTCCCGTGG TCAGGAAGCA 360  
 253  
 254 GAGGTACGTG TTTGACATTA GTGCCCTGGA GAAGGATGGG CTGCTGGGG CCGAGCTCCG 420  
 255  
 256 GATCTTGCAG AAGAAGCCCT CGGACACGGC CAAGCCAGCG GCCCCCGGAG GCAGGGCGGGC 480  
 257  
 258 TGCCCCAGCTG AAGCTGTCCA GCTGCCCGAG CGGCCGGCAG CCGGCCTCCT TGCTGGATGT 540

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
PATENT APPLICATION *US/08/217,780*

DATE: 04/08/94  
TIME: 10:34:21

***INPUT SET: S1916.raw***

Line	Error	Original Text
31	Wrong application Serial Number	(A) APPLICATION NUMBER: US

**ENTERED**

PAGE: 1

**SEQUENCE MISSING ITEM REPORT**  
PATENT APPLICATION *US/08/217,780*

DATE: 04/08/94  
TIME: 10:34:22

***INPUT SET: S1916.raw***

APPLICATION NUMBER  
FILING DATE  
PRIOR APPLICATION DATA

PAGE: 1

**SEQUENCE CORRECTION REPORT**  
PATENT APPLICATION *US/08/217,780*

DATE: 04/08/94  
TIME: 10:34:22

***INPUT SET: S1916.raw***

Line

Original Text

Corrected Text